

## Abstract of the Disclosure

A frequency offset detection processing system includes a TCXO, demodulation unit, frequency offset detection unit, and AFC control unit. In the AFC control unit, a majority determination unit determines  
5 whether each of phase moving amount detection values by a plurality of frequency offsets is positive or negative and totalizes to determine which of the positive values and the negative values are larger in number. A detection value conversion unit converts the phase  
10 moving amount detection values in accordance with the majority determination result. An averaging processing unit adds the phase moving amount detection values and divides the sum by the number of added values. A correction value calculation unit calculates a frequency  
15 offset from the phase moving amounts after averaging processing. A TCXO control unit corrects TCXO control on the basis of the calculated frequency offset. A frequency offset detection processing method is also disclosed.